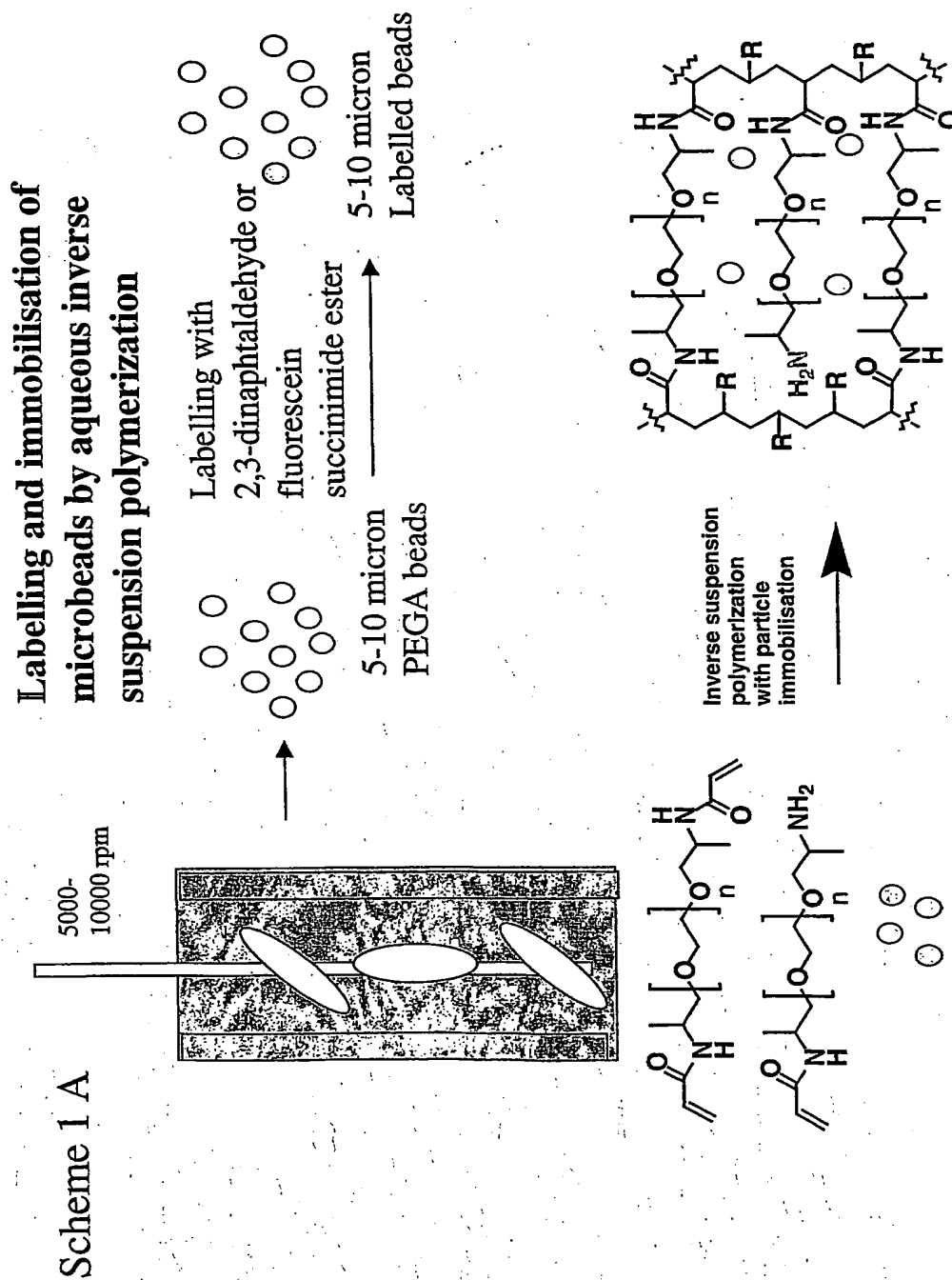


10/529397

1/34

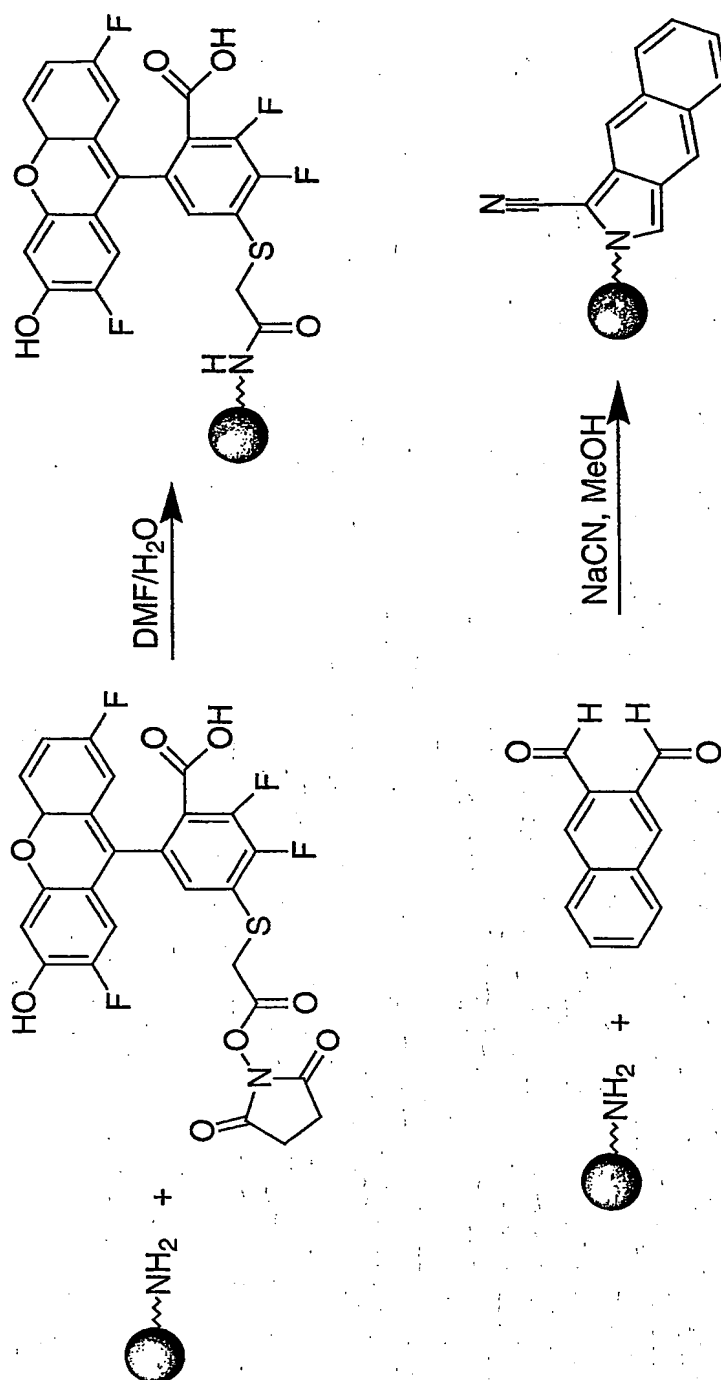


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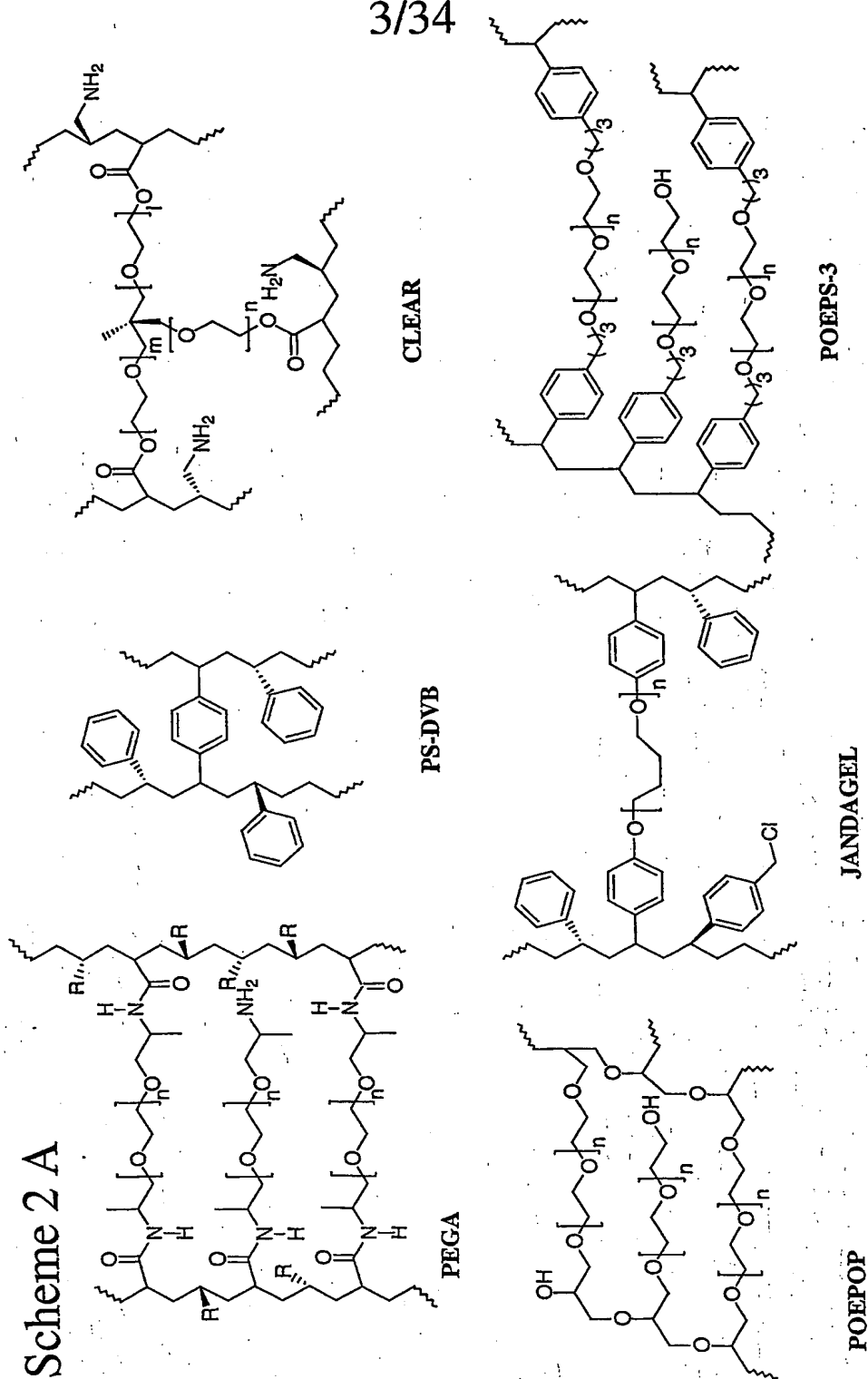
10/529397

2/34

Scheme 1 B



3/34



10/529397

4/34

Scheme 2 B

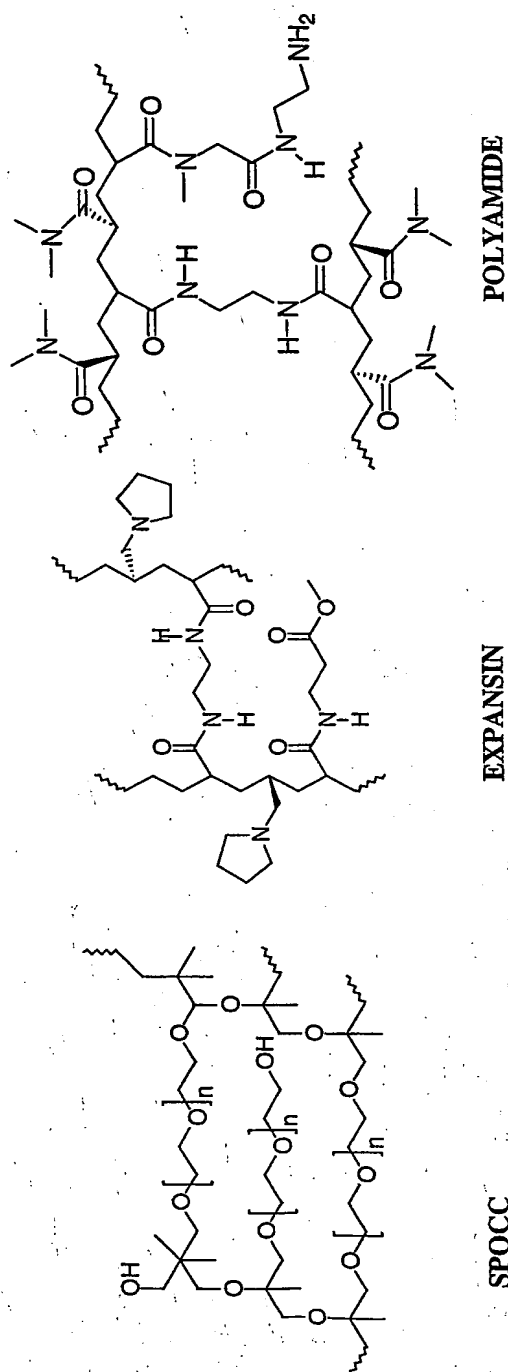
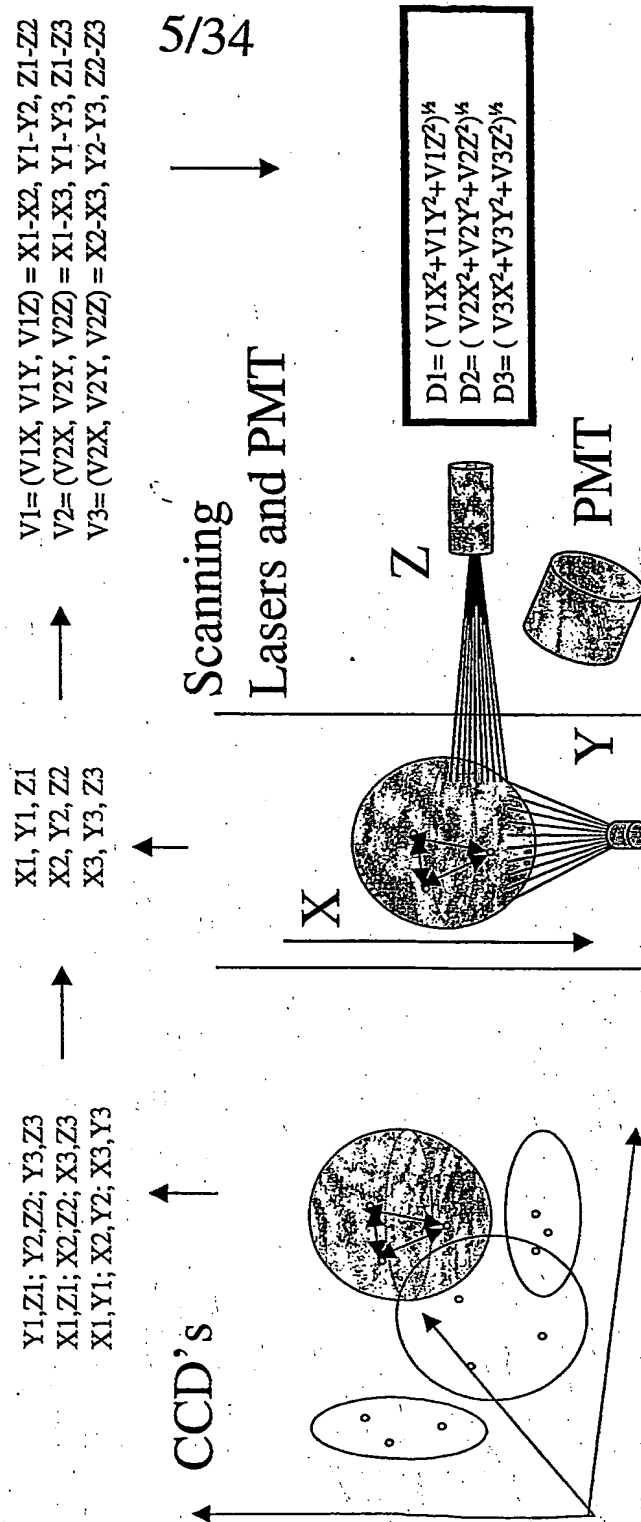


Fig. 1

Spatial encoding of beads

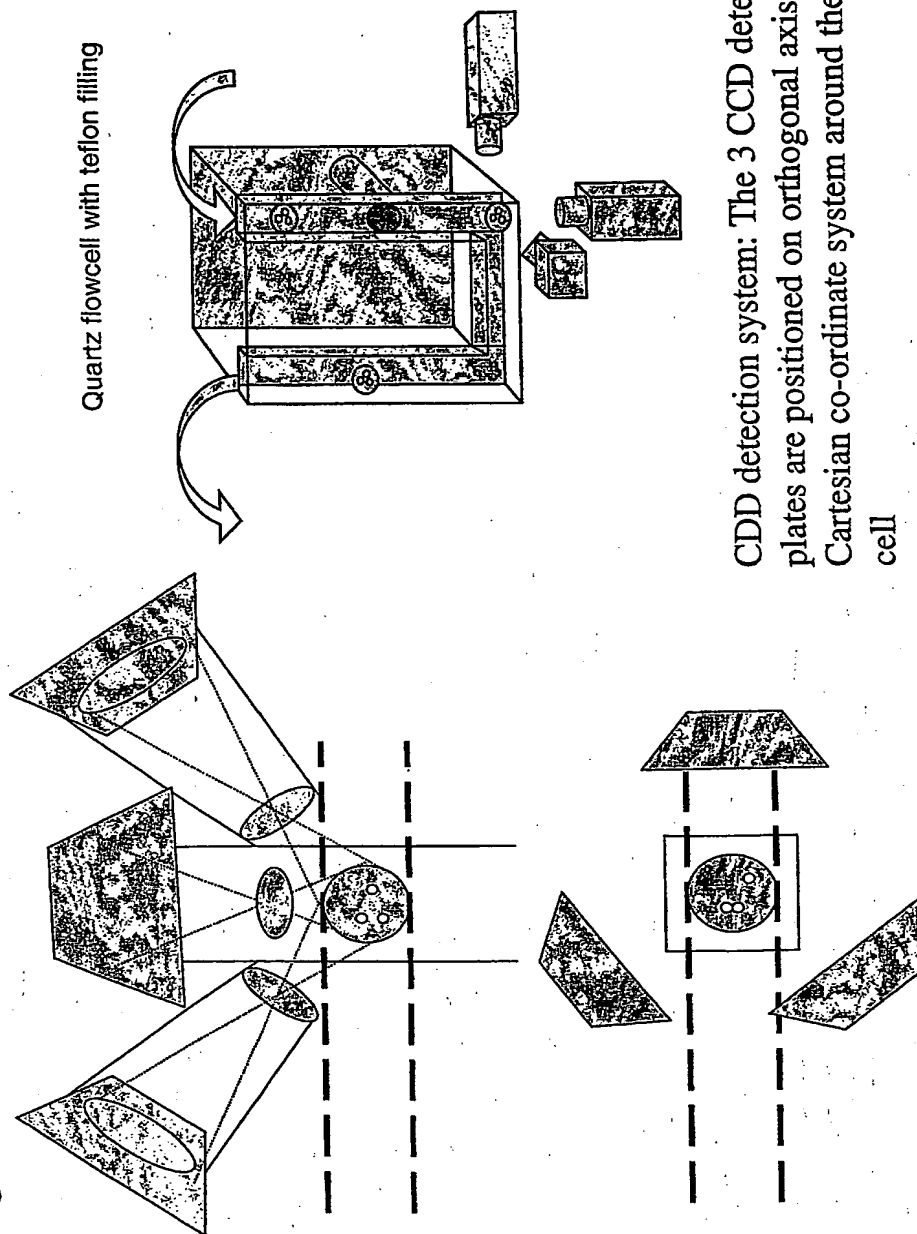


10/529397

6/34

CCD detection

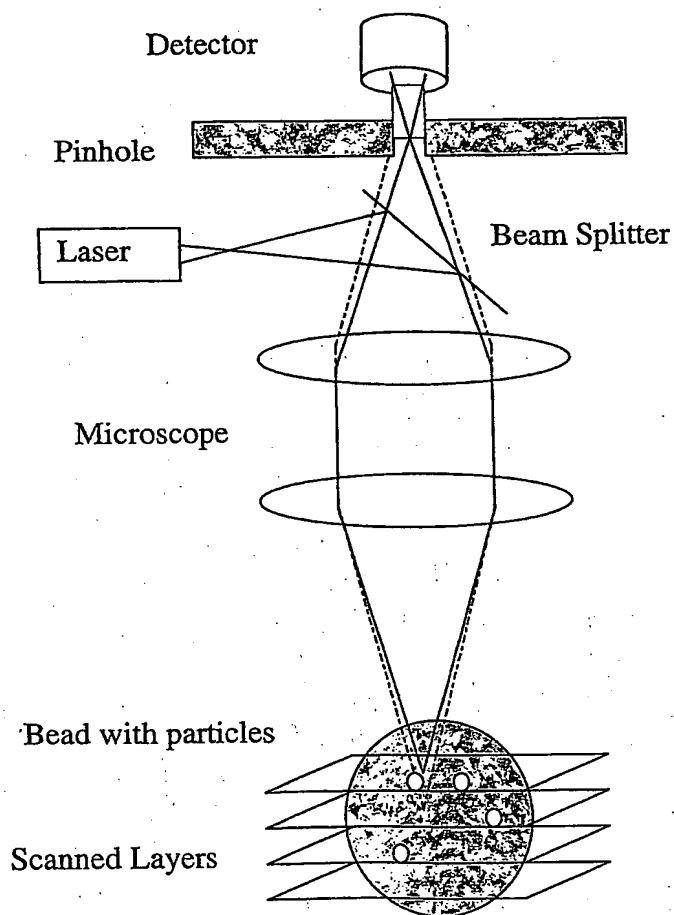
Fig. 2



7/34

Fig. 3

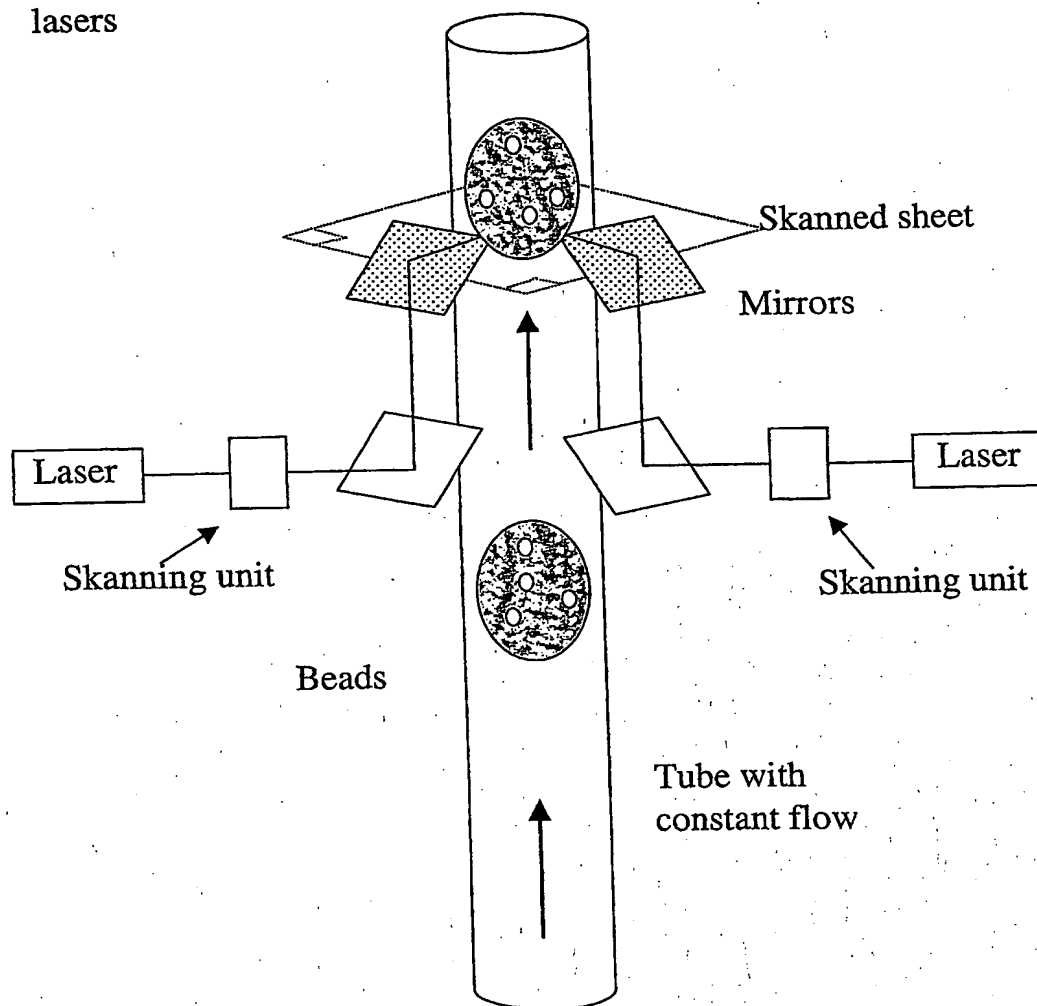
Recording of coordinates of particles in a bead using
focal or confocal microscopy



8/34

Fig. 4

Recording of coordinates of particles in a moving bead by two alternating scanning lasers

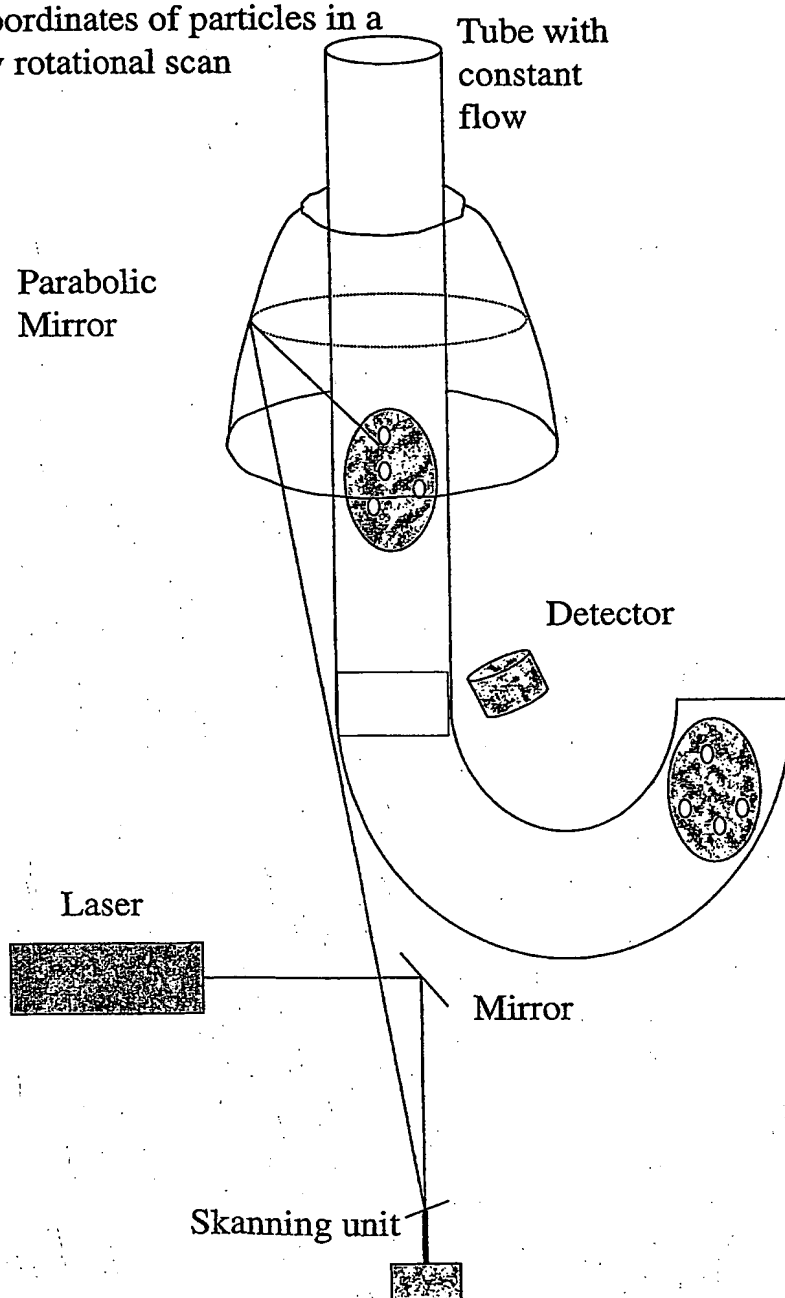


10/529397

9/34

Fig. 5a

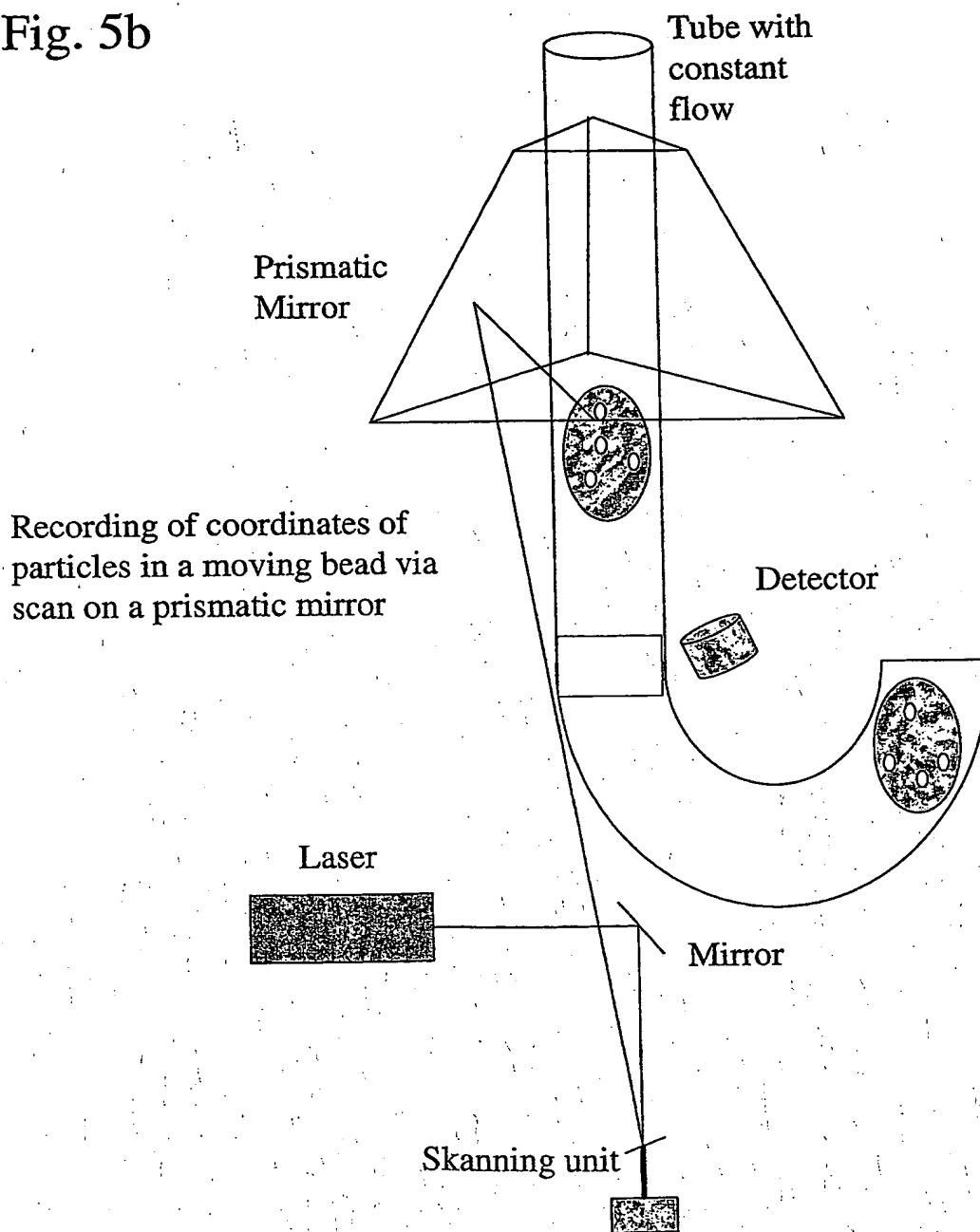
Recording of coordinates of particles in a
moving bead by rotational scan



10/529397

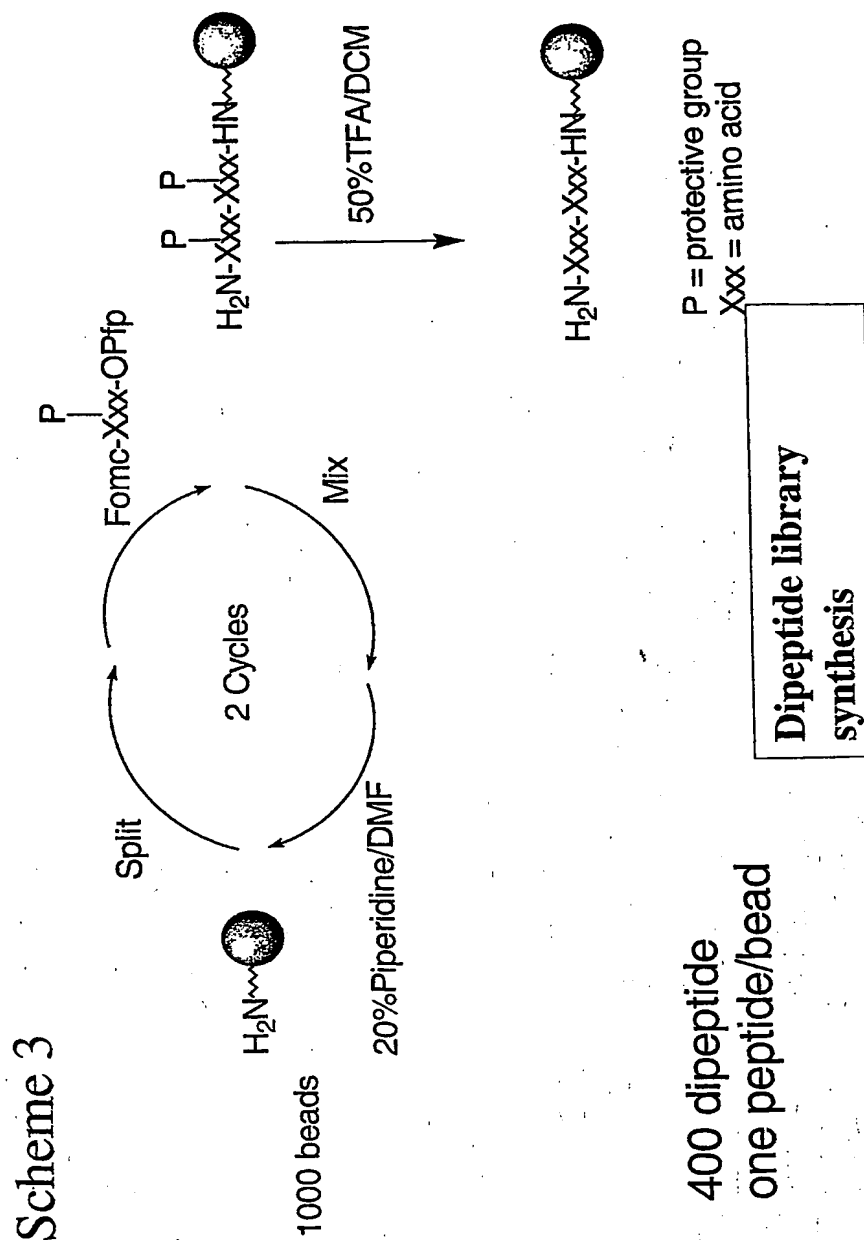
10/34

Fig. 5b



10/529397

11/34

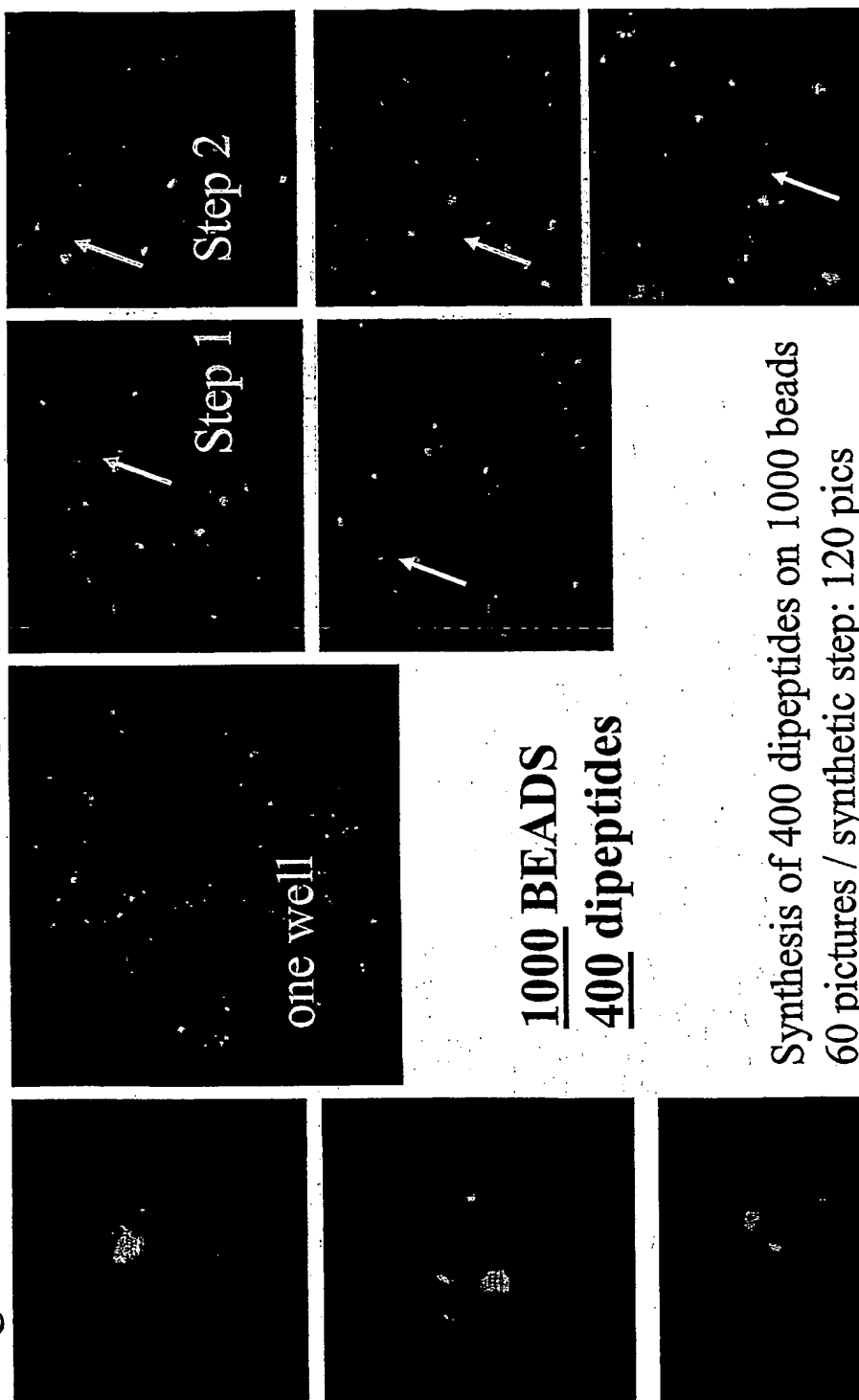


10/529397

12/34

Visual decoding of dipeptide library

Fig. 6 A



Synthesis of 400 dipeptides on 1000 beads
 60 pictures / synthetic step: 120 pics
 Identification of "hits" in previous pics: VG
 Comparison with Edman degradation: VG

13/34

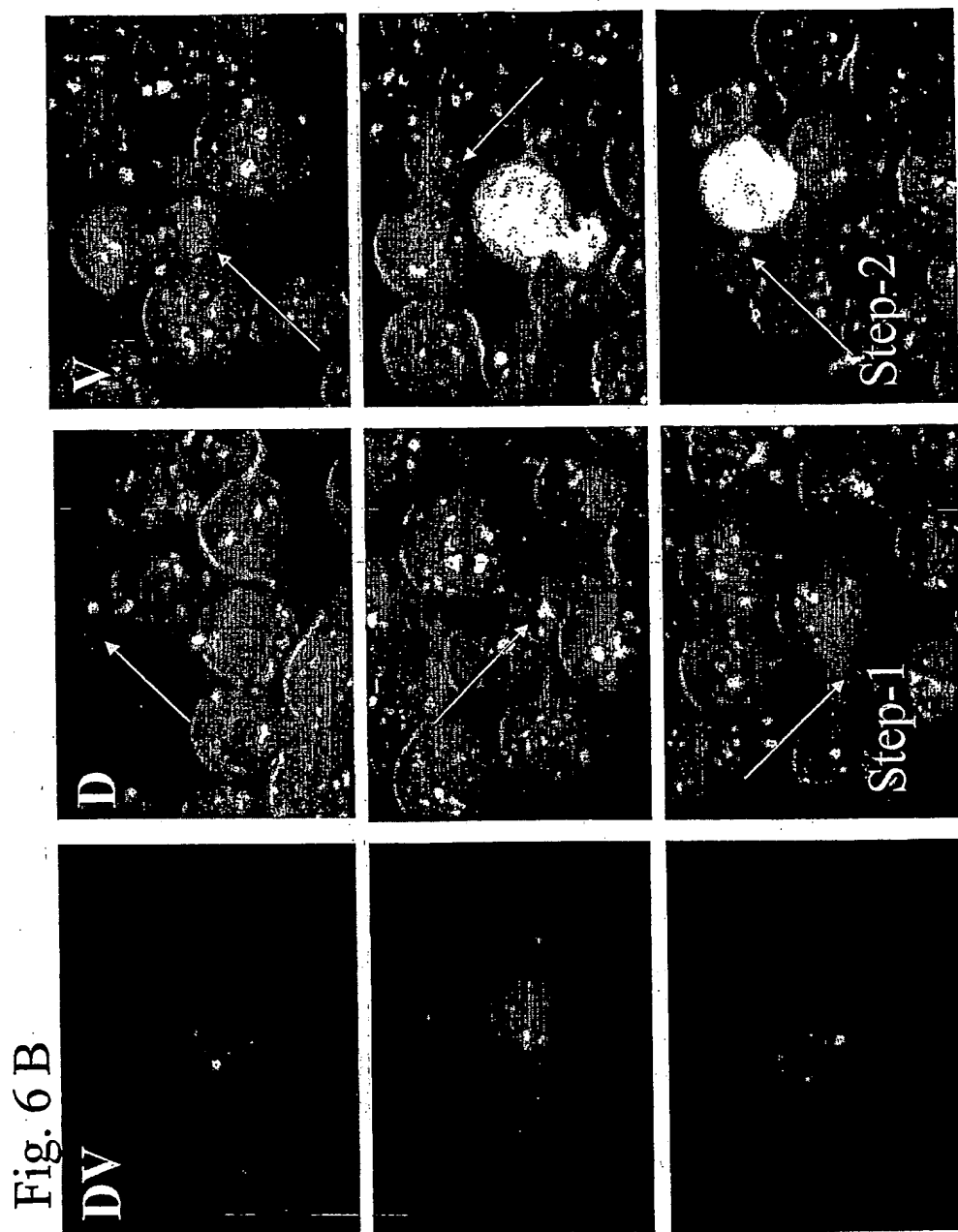
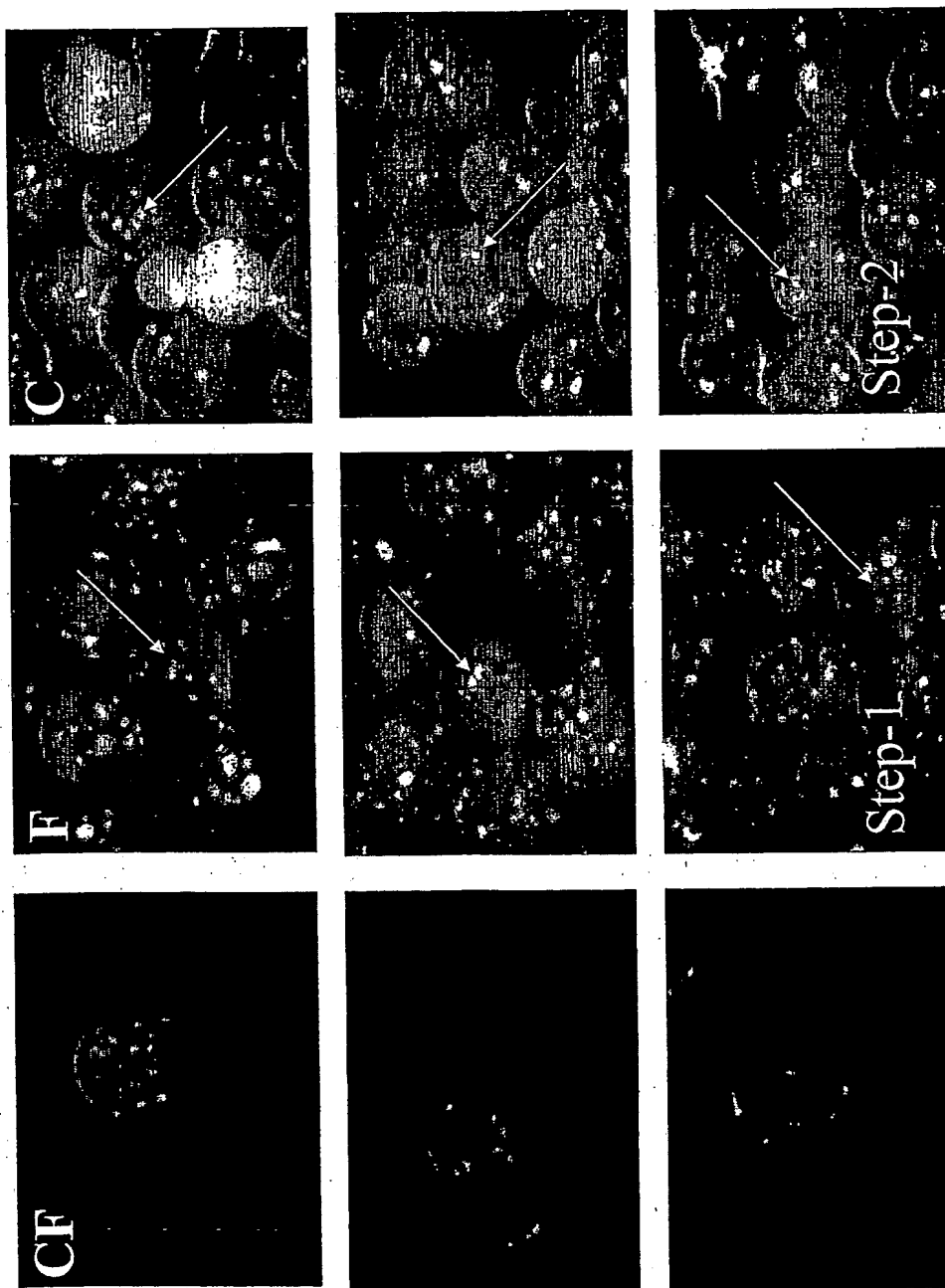


Fig. 6 C



15/34

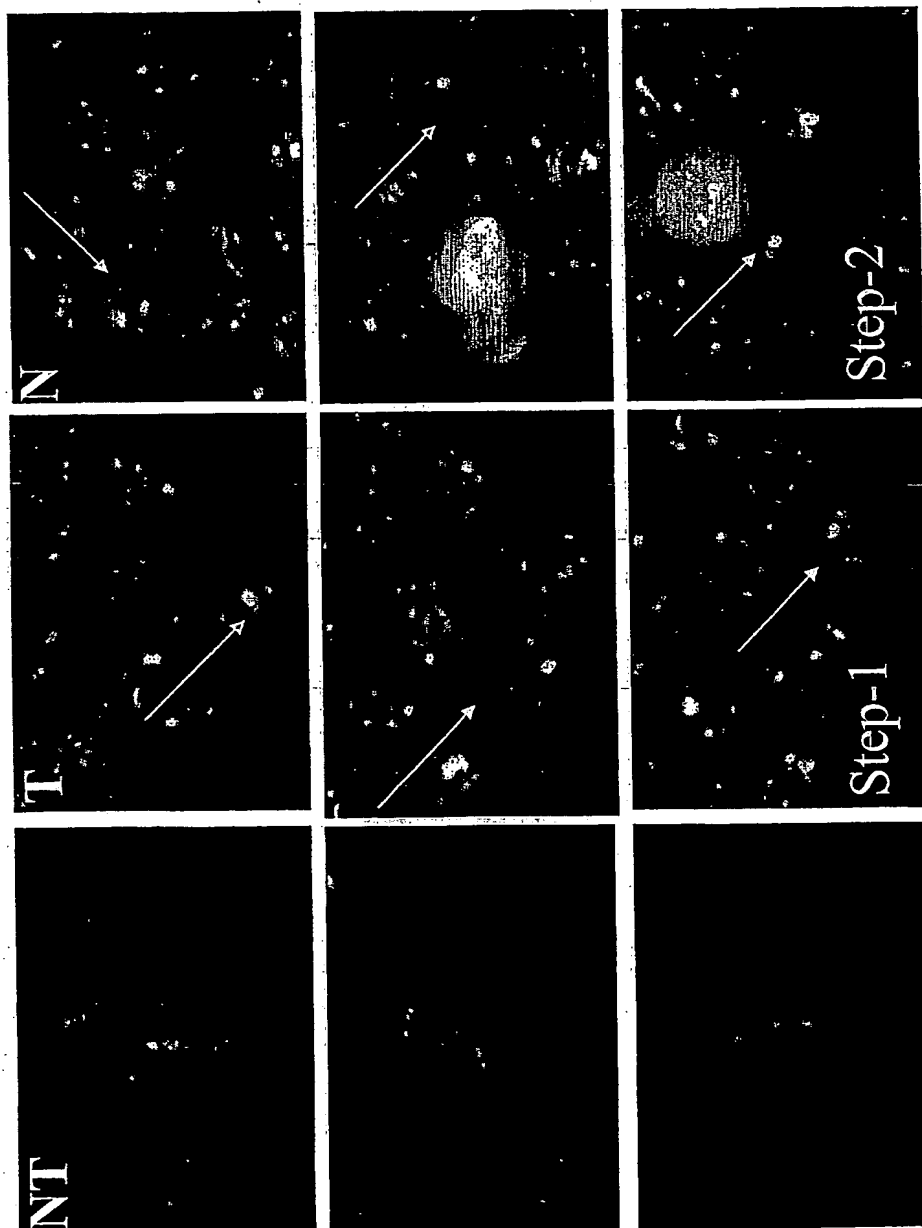
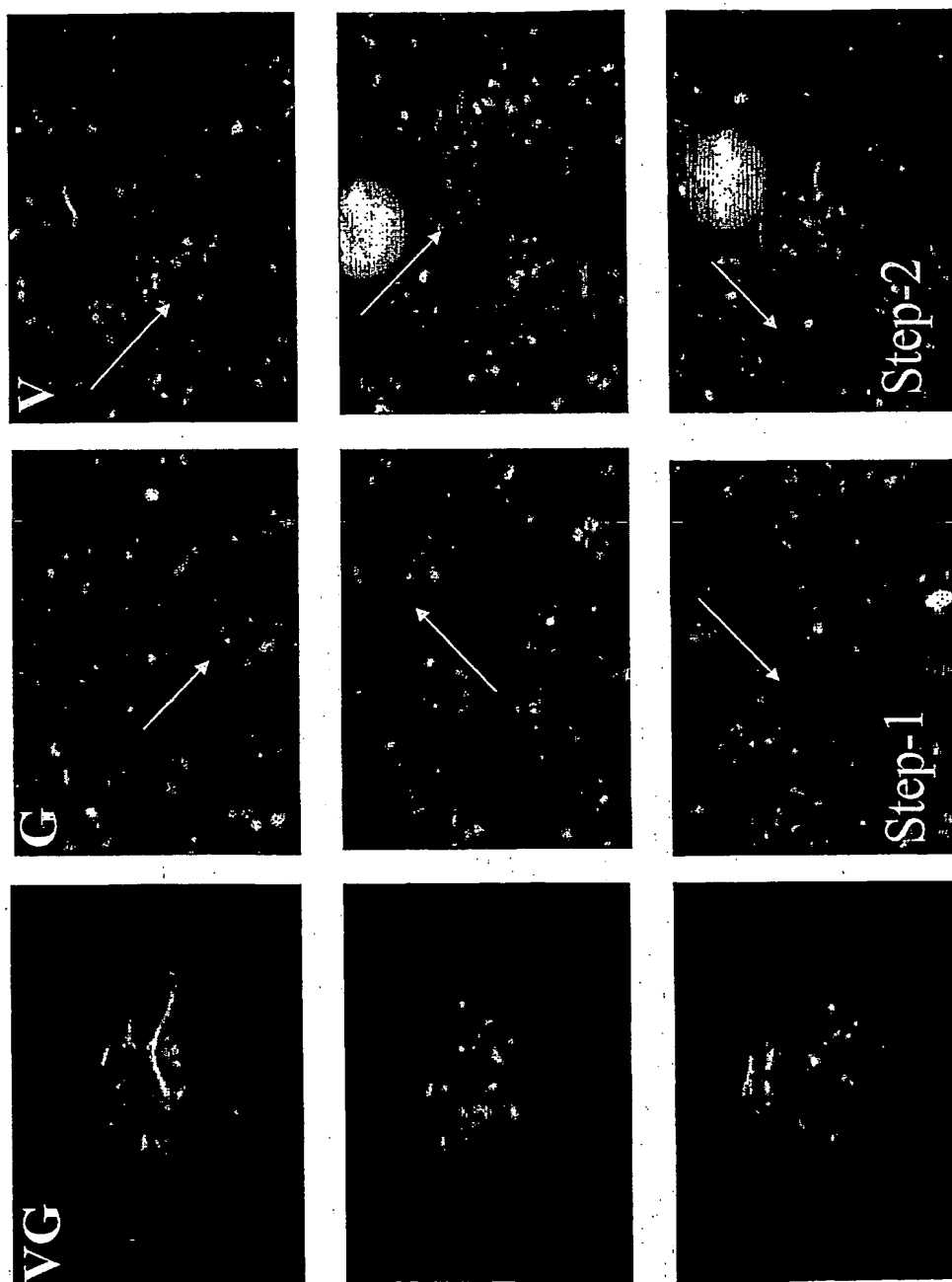


Fig. 6 D

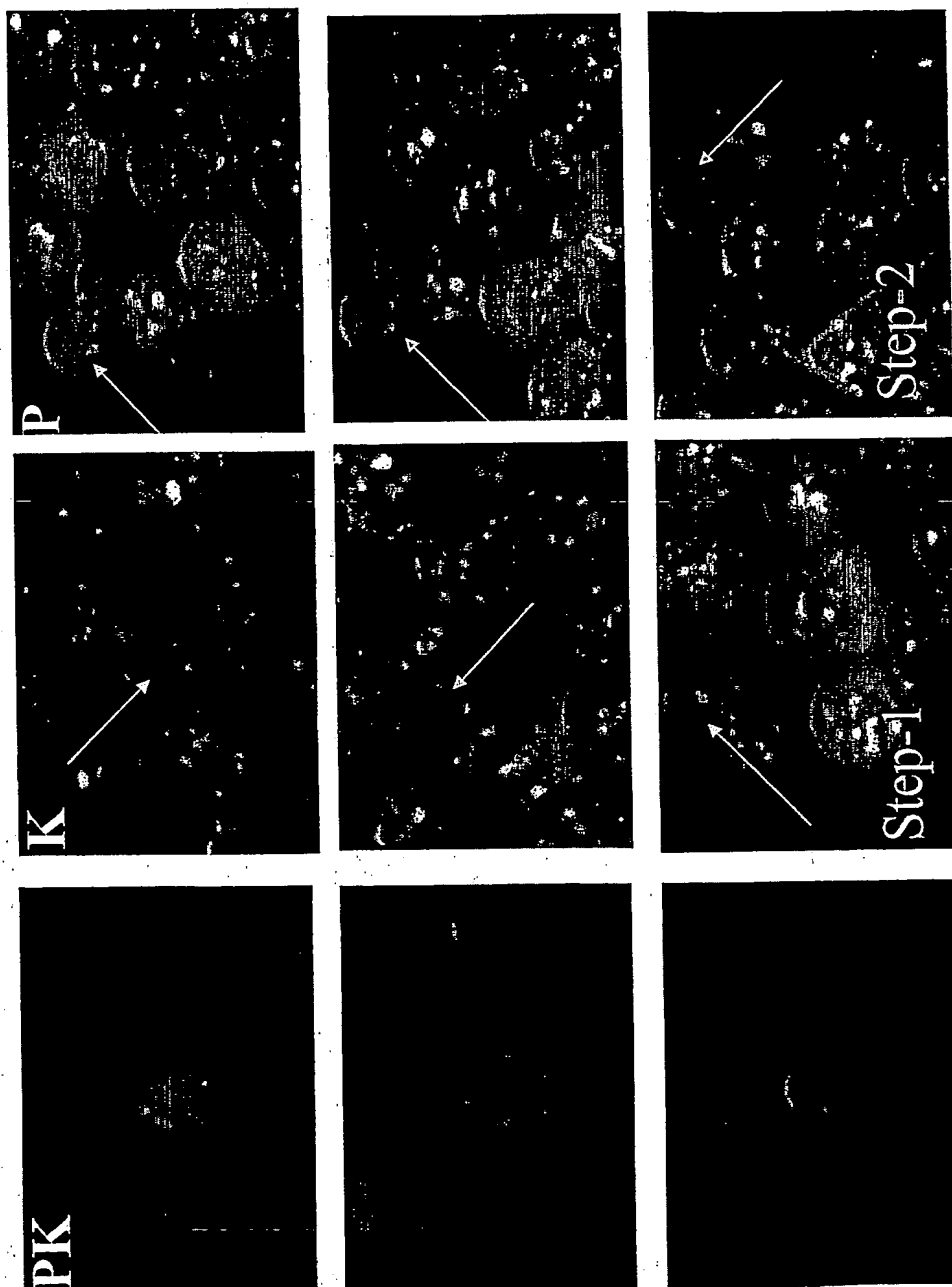
16/34

Fig. 6 E



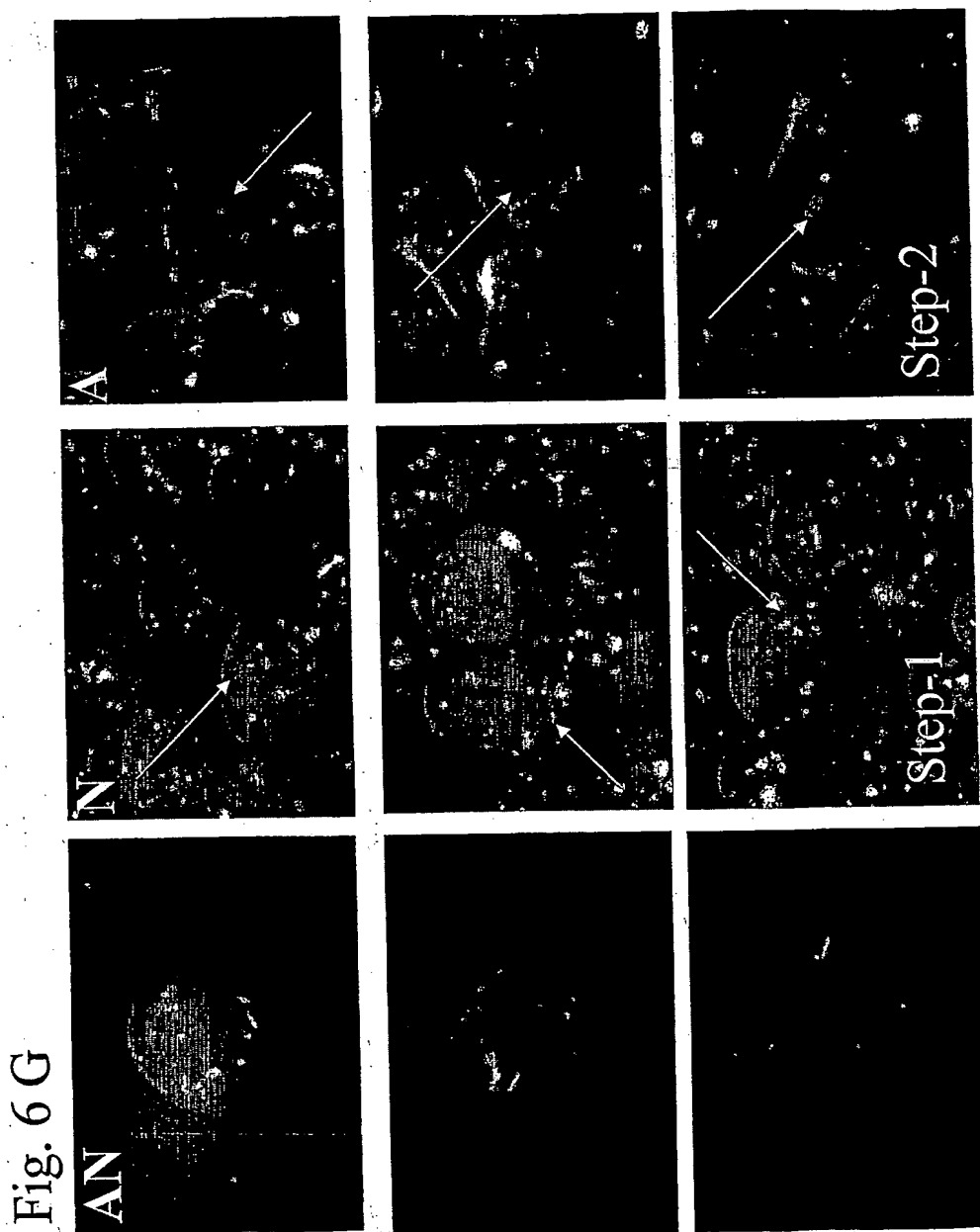
17/34

Fig. 6 F



10/529397

18/34



10/529397

19/34

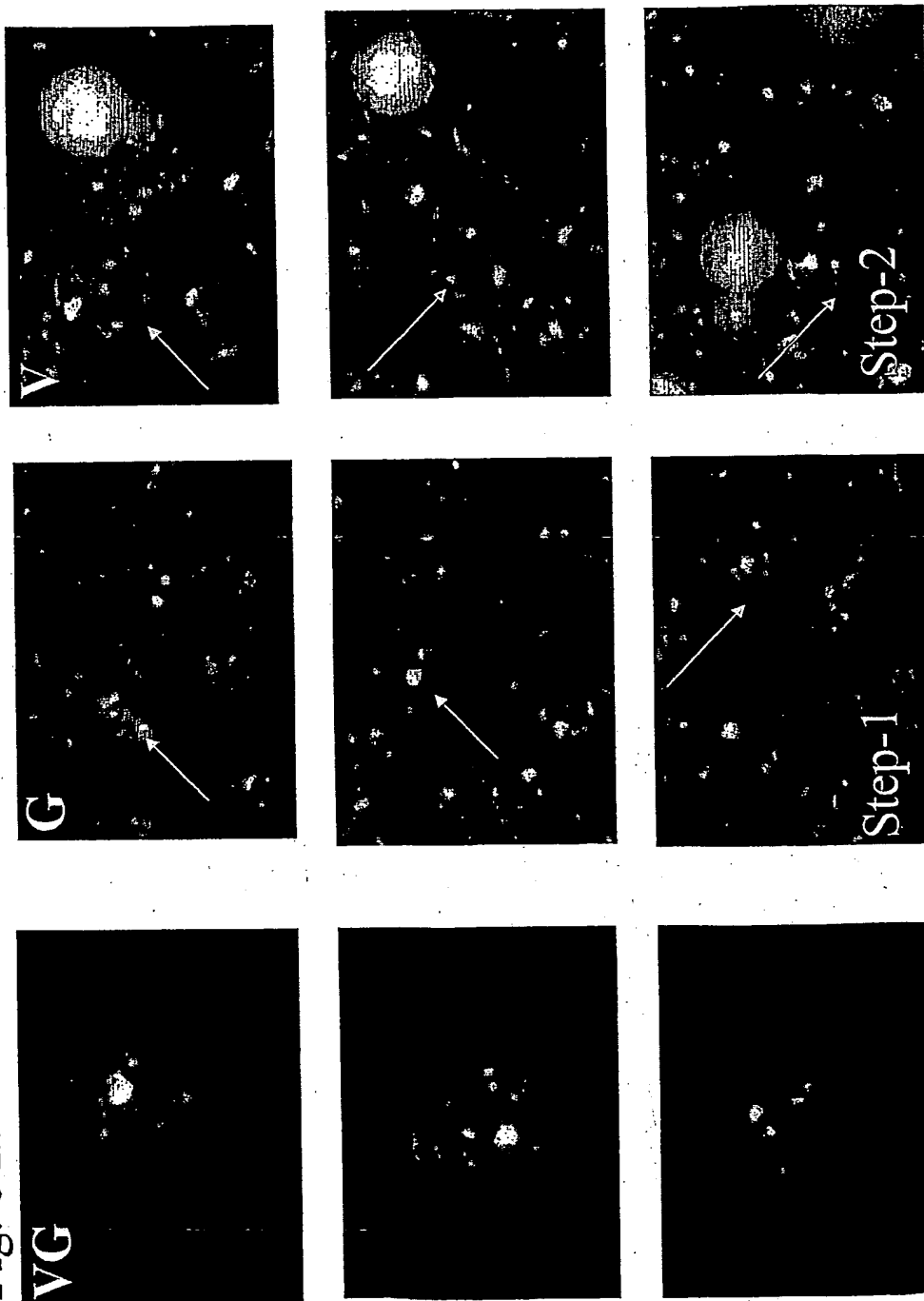
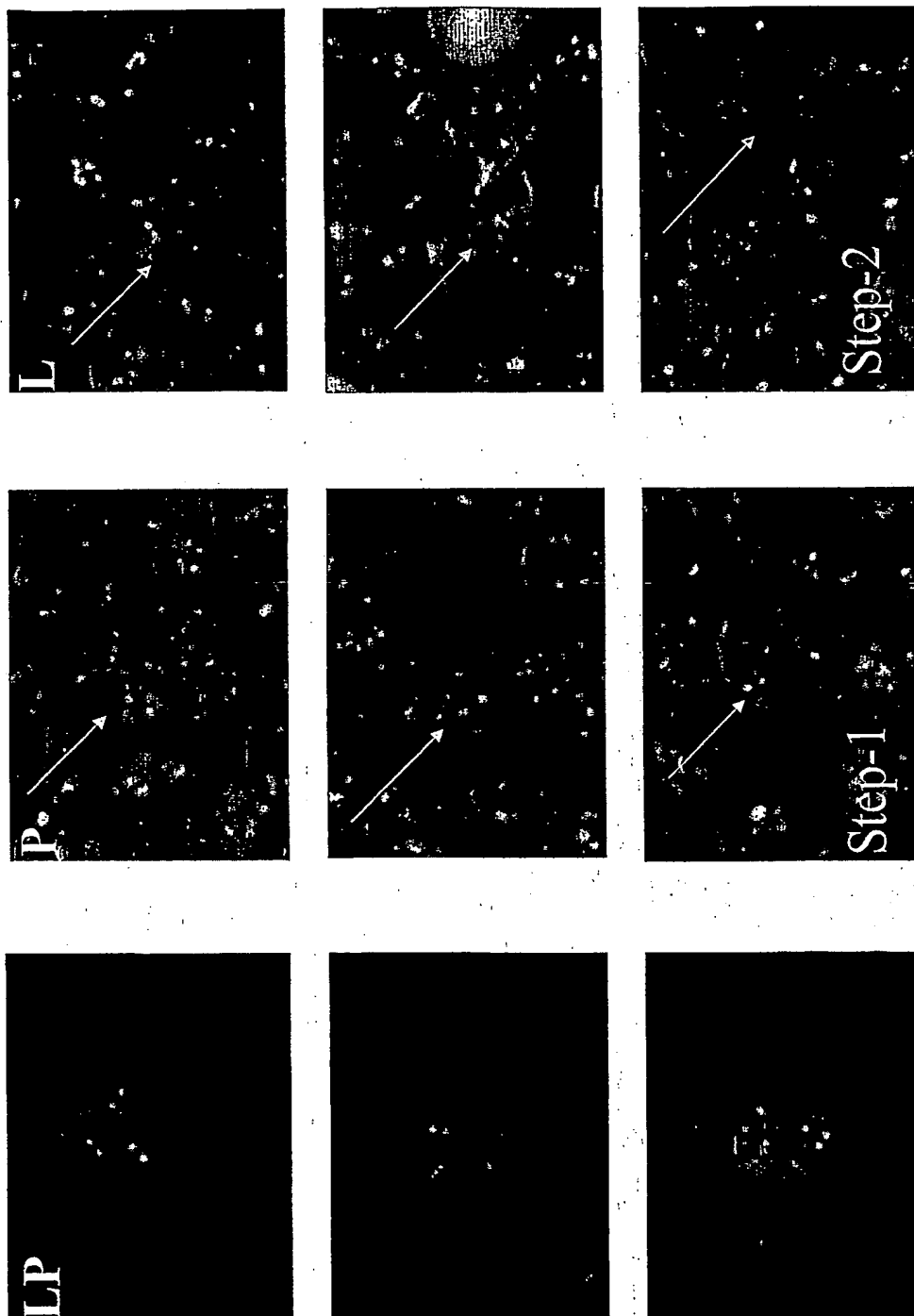


Fig. 6 H

10/529397

20/34

Fig. 6 I



10/529397

21/34

Table 1

Visual decoding of 20 beads from a library containing 400 dipeptides

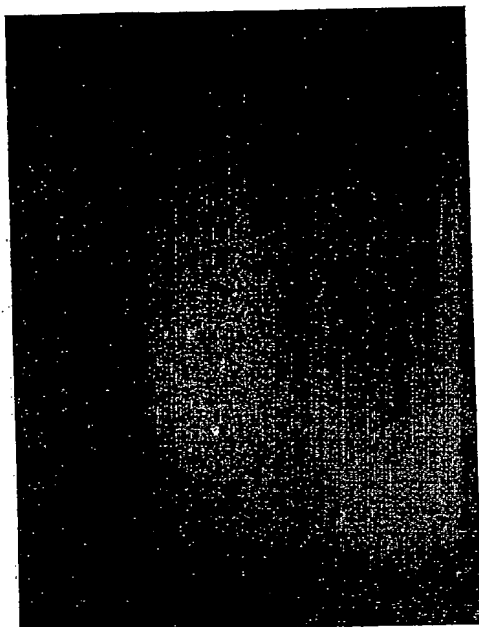
	Seq	Pic	Other possible	
1	CF	CF		
2	AT	AY		
3	DV	DV		
4	EV	EF		
5	FR	FD		
6	GM	GM	GF	
7	IV	IV	IP	
8	LP	LP		
9	WG	WW		
10	YW	YW		

	Seq	Pic	Other possible	
11	HF	HL		
12	NT	NT		
13	AN	AN		
14	PH	PF		
15	PK	PK		
16	FR	FR	FH	VR
17	VG	VG		
18	RQ	RQ	VQ	
19	VG	VG		
20	AL	AL	VL	AI

10/529397

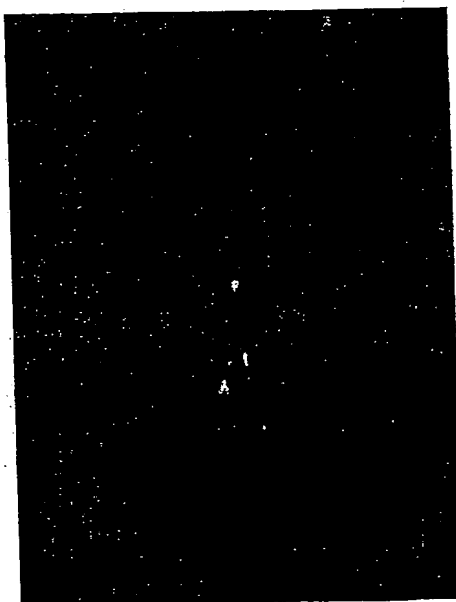
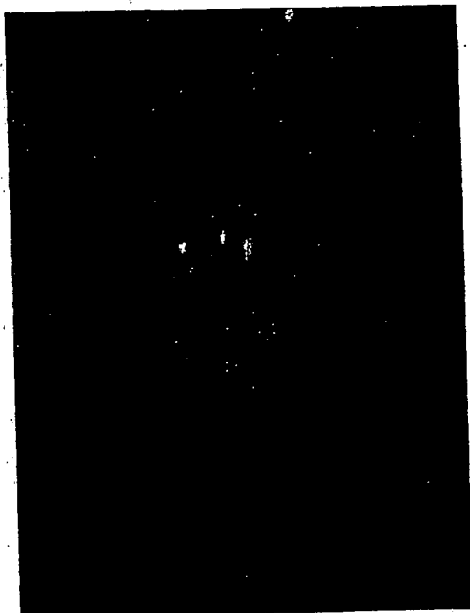
22/34

Fig. 7 A



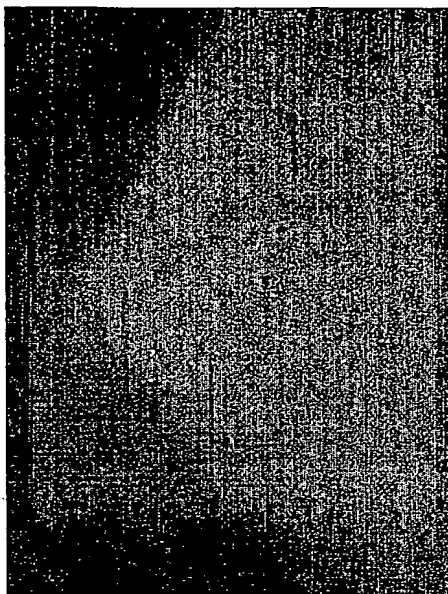
3 Orthogonal pictures

0,0	0,0	0.0
X1, X2	X1, X2	Y1, Y2
Y1, Y2	Z1, Z2	Z1, Z2



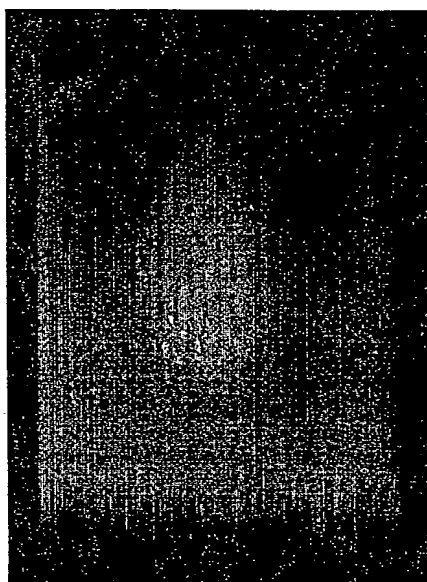
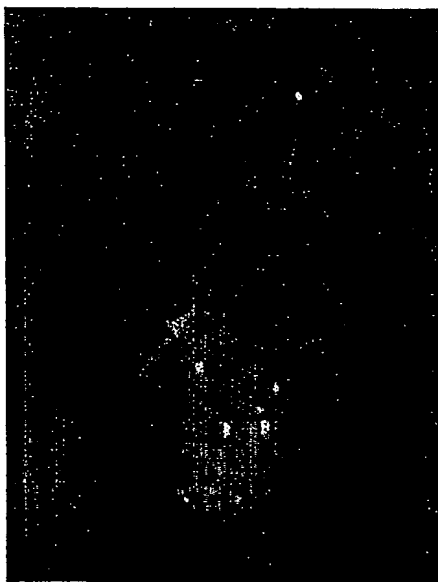
23/34

Fig. 7 B



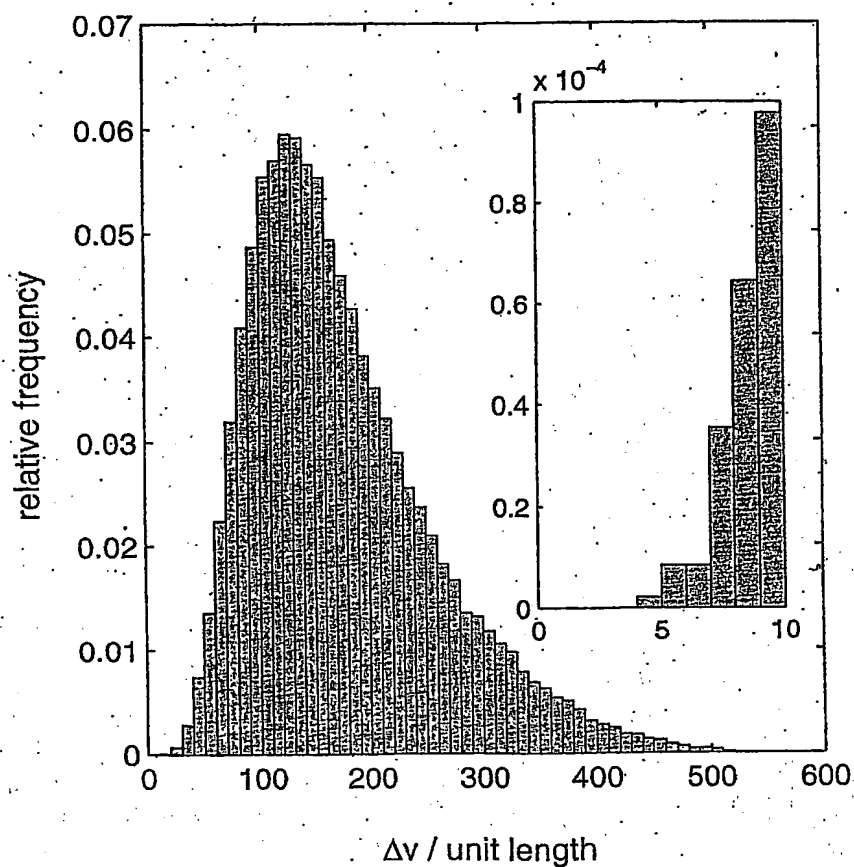
3 Orthogonal pictures

0,0	0,0	0,0
X1, X2	X1, X2	Y1, Y2
Y1, Y2	Z1, Z2	Z1, Z2



24/34

Fig. 8



25/34

Fig. 9

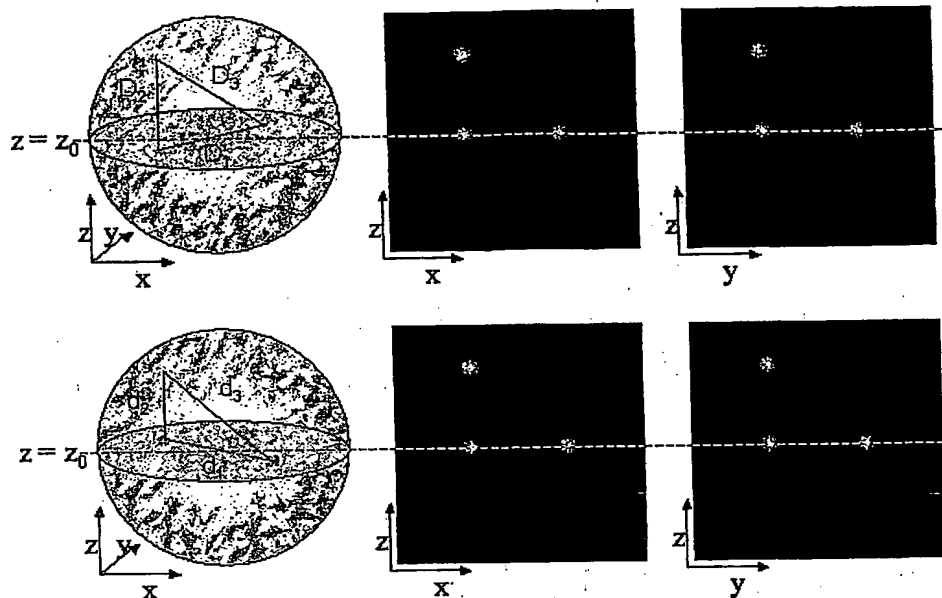
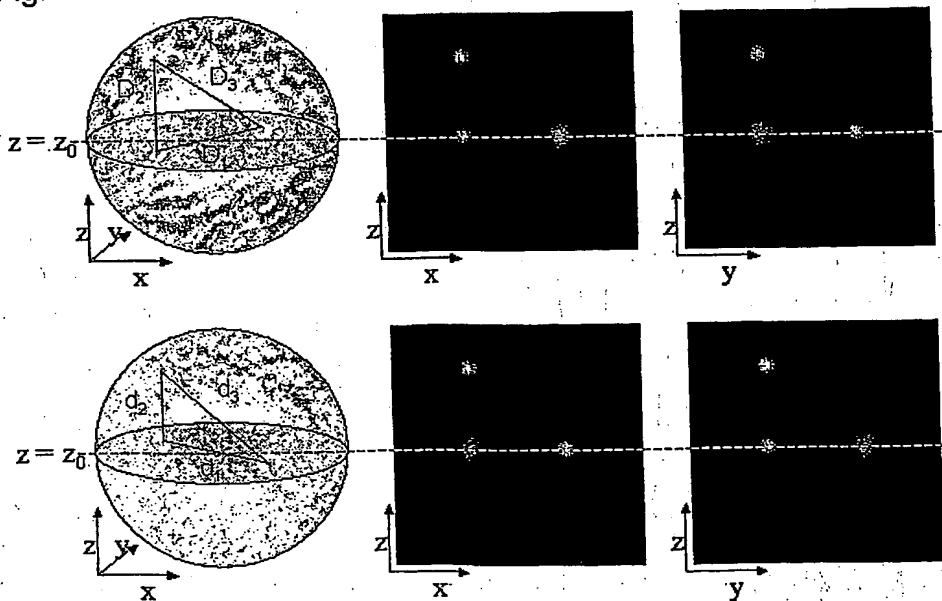
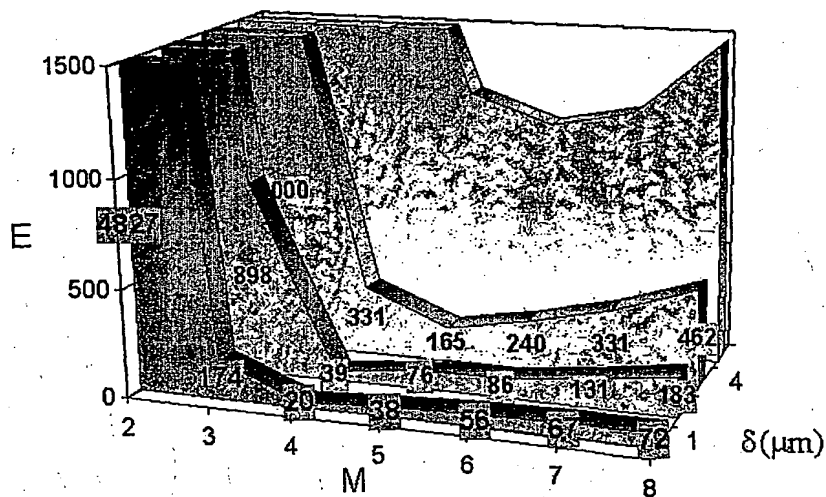
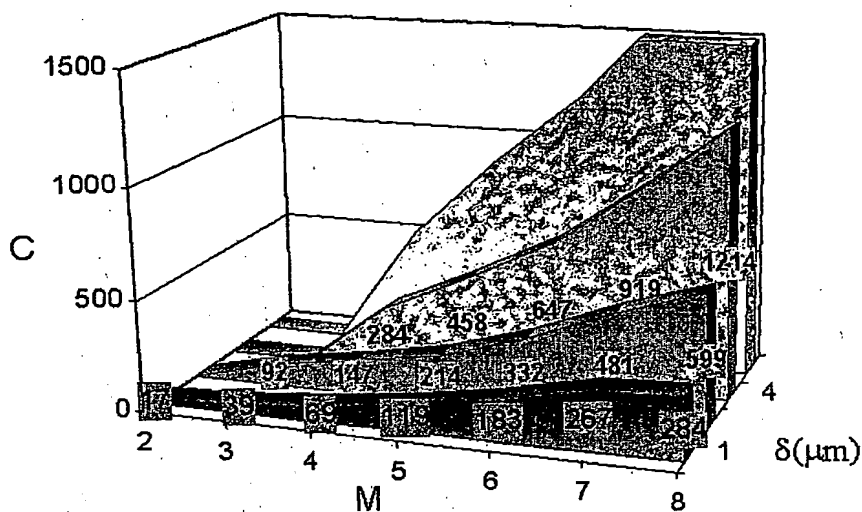


Fig. 10



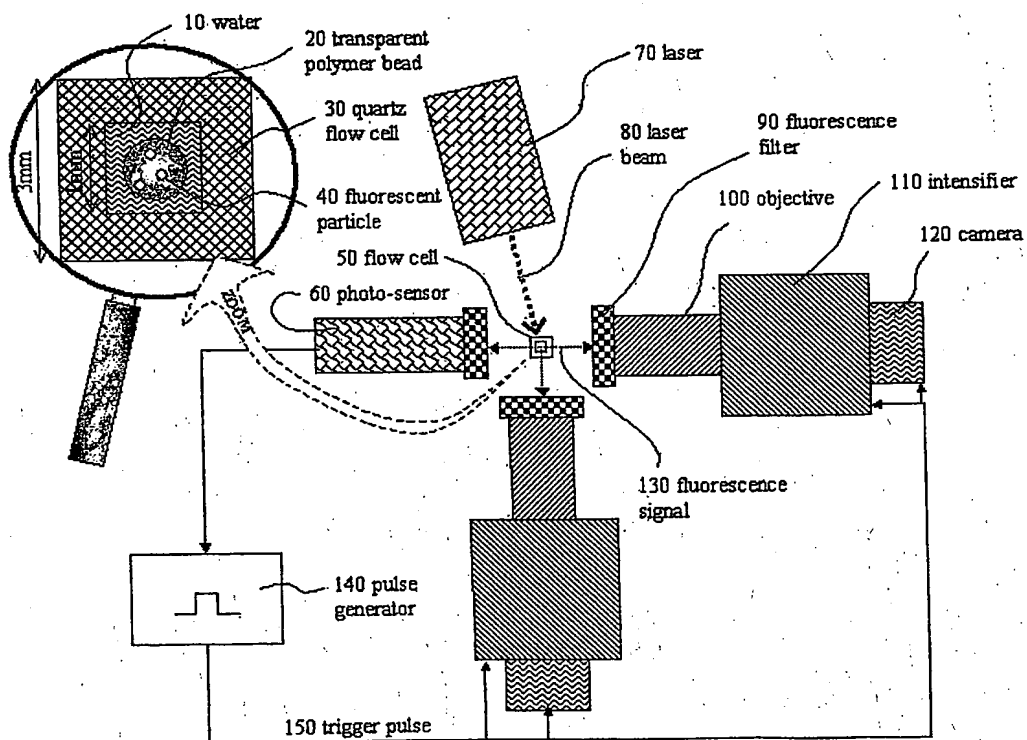
26/34

Fig. 11



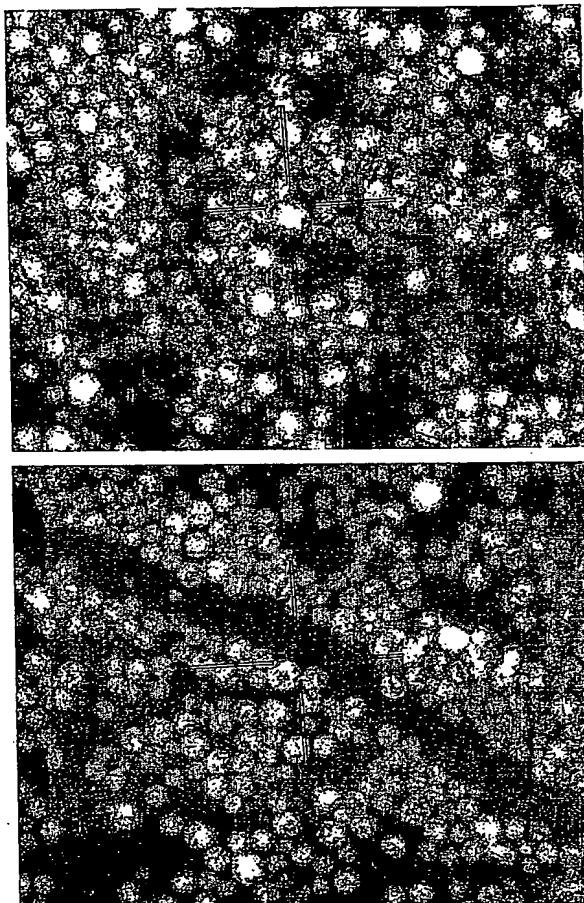
27/34

Fig. 12



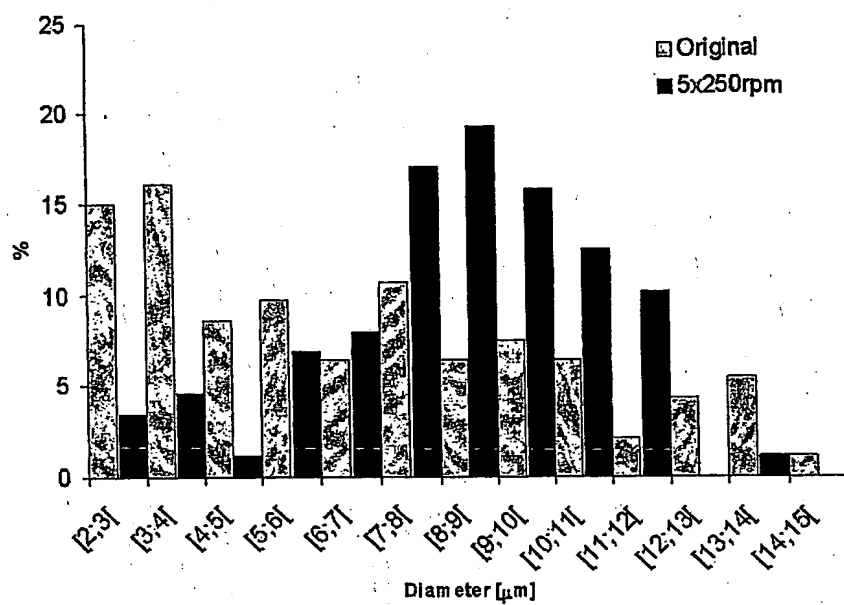
28/34

Fig. 13

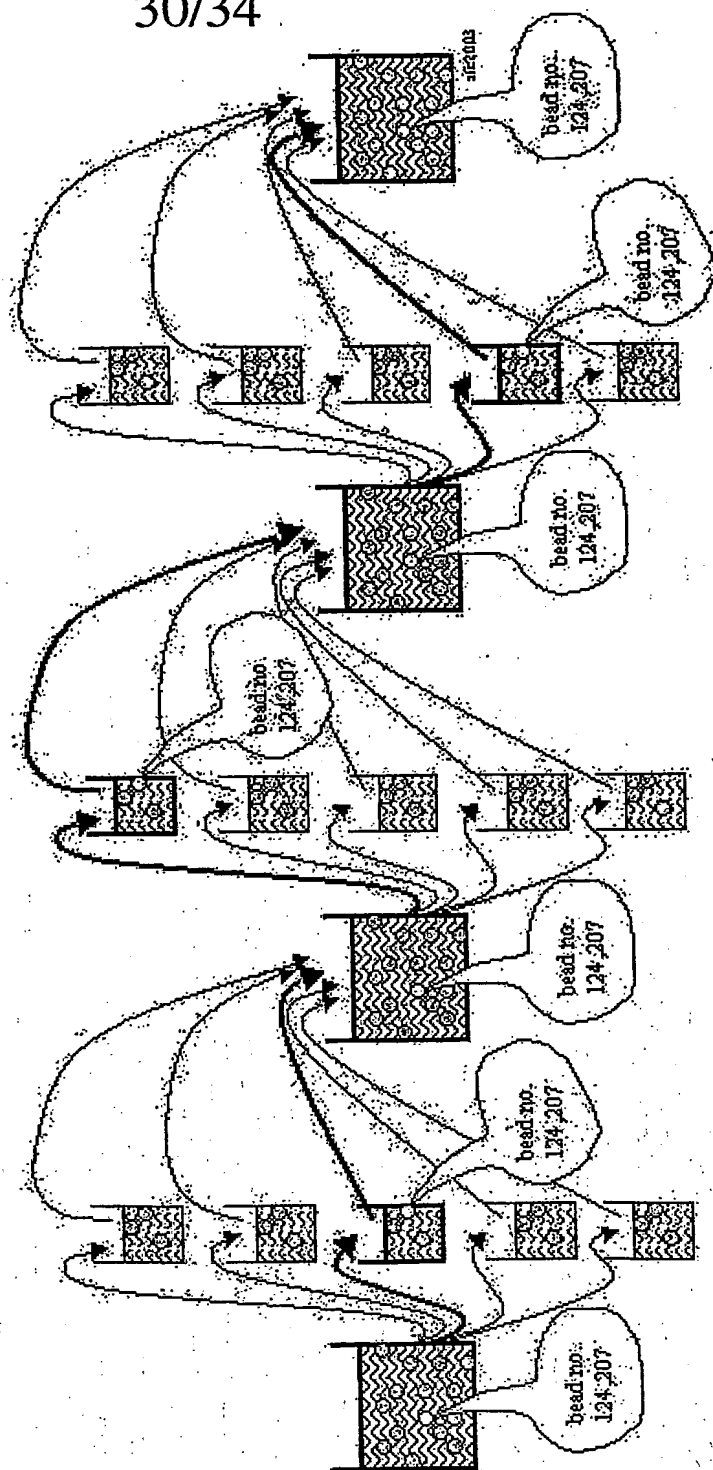


29/34

Fig. 14



30/34



31/34

Fig. 16

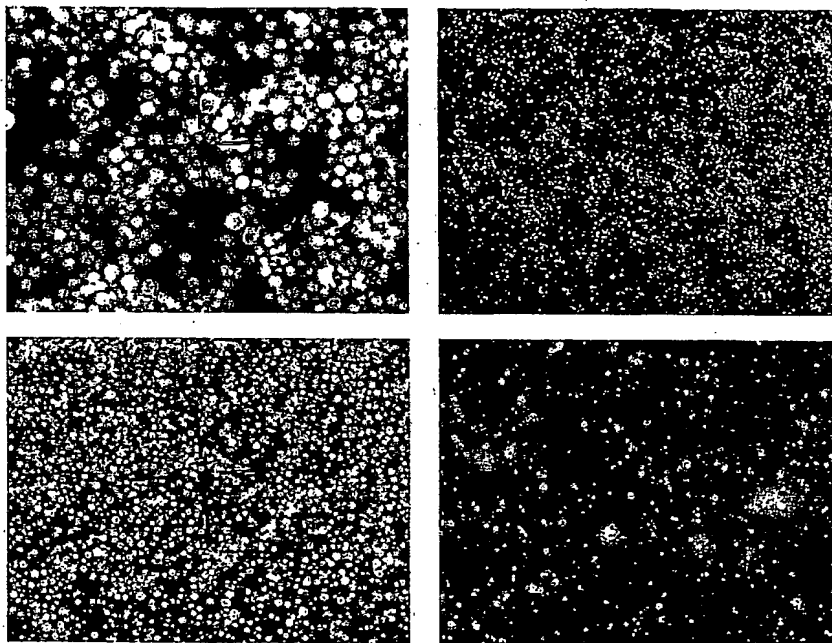
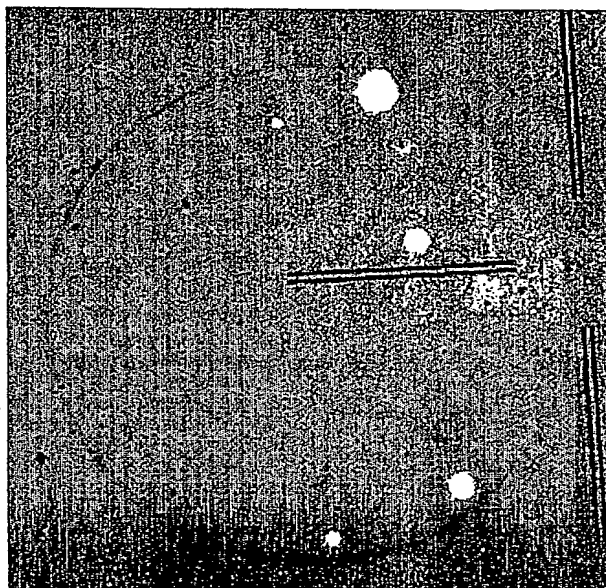


Fig. 17



32/34

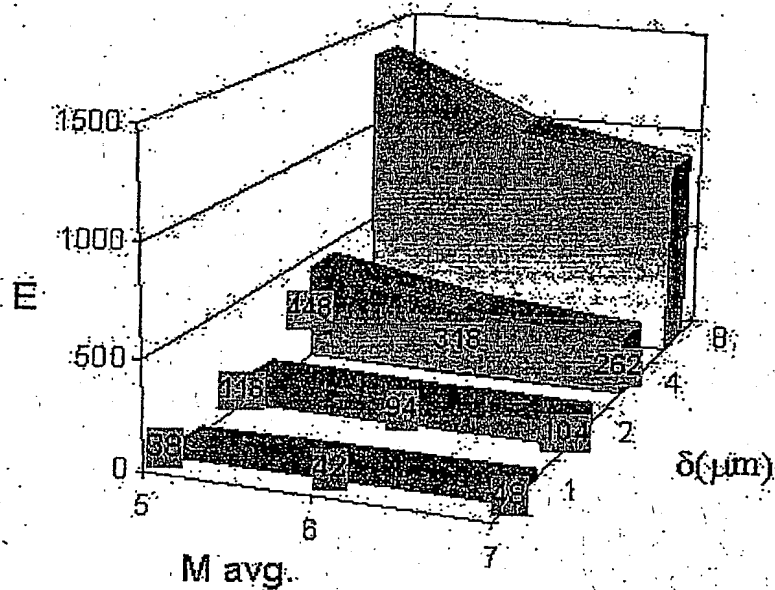
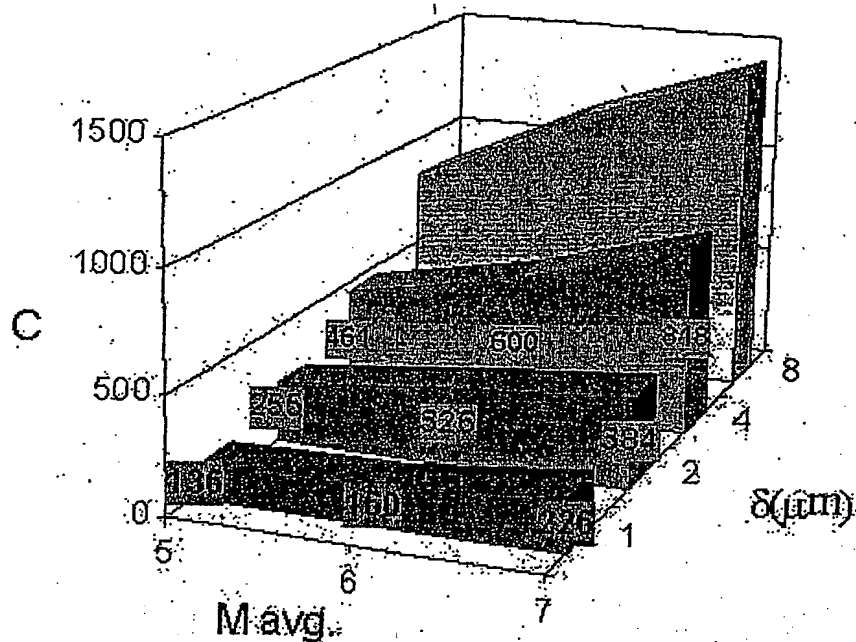
Fig. 18



10/529397

33/34

Fig. 19

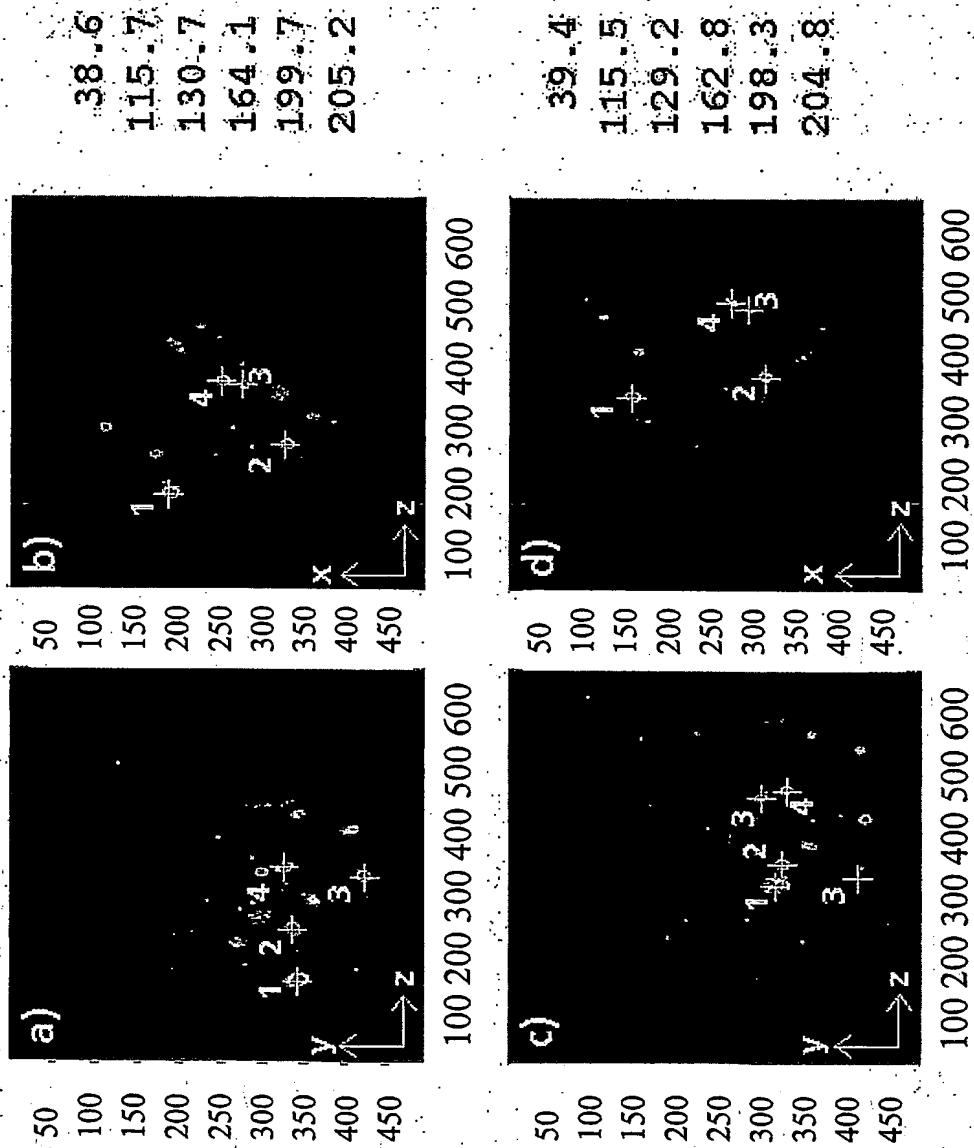


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34/34

10/529397

Fig. 20



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